US Model

FM/SW/MW 5BAND RECEIVER

SPECIFICATIONS

Frequency range	FM 87.5 - 108 MHz SW_1 3.9 - 10 MHz (77 - 30 m) SW_2 11.7 - 20 MHz (25.6 - 15 m) SW_3 20 - 28 MHz (15 - 10.7 m) MW 530 - 1,605 kHz (566 - 187 m)
Antennas	SW/FM: Telescopic antenna SW/MW: External antenna terminal MW: Built-in ferrite bar antenna
Speaker	Approx. 10 cm (4 inches) dia.
Power output	1,100 mW (at 10% harmonic distortion)
Outputs	Earphone jack (minijack) for 8-ohm earphone or load impedance 10 kilohms or higher Recording output jack (minijack) output level 1 mV (−60 dB) output impedance 1 kilohm
Power requirements	9 V dc, six batteries IEC designation R14 (size C) 120 V ac, 60 Hz with supplied Sony AC-160W ac power adaptor 12 V car battery with optional Sony DCC-120 car battery cord
Battery life	Approx. 24 hours using Eveready No. 1235 Heavy Duty batteries
Dimensions	Approx. 289 × 168.5 × 102 mm (w/h/d) (11½ × 6¾ × 4⅛ inches) incl. projecting parts and controls
Weight	Approx. 1.85 kg (4 lb 1¼ oz) incl. batteries

MICROFILM

SONY®

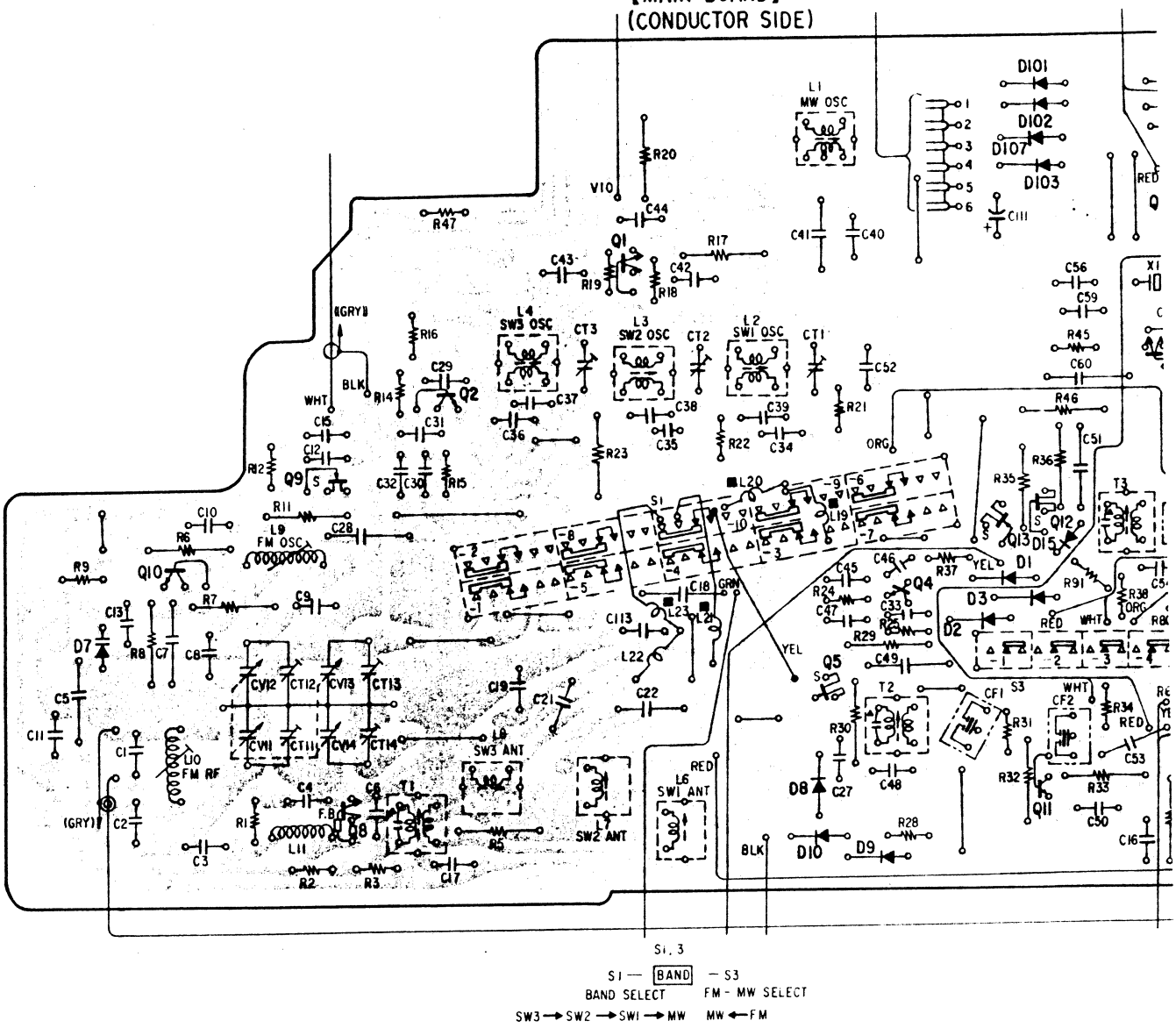
SERVICE MANUAL

SECTION 1
DIAGRAMS

1-1. MOUNTING DIAGRAM

	A	B	C	D
Q IC	10 9 8 2	1 5 4 13 12 11		
D	7	8 10 9	2 1 3	101 102 107 103 15

【MAIN BOARD】
(CONDUCTOR SIDE)

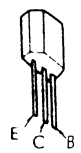


S1, 3

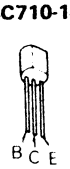
S1 — BAND — S3
BAND SELECT FM - MW SELECT
SW3 → SW2 → SW1 → MW MW ← FM

● **Replacement Semiconductors**

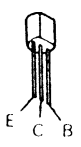
2SA1027R



2SC710-13
2SC710-14

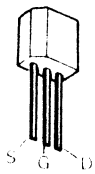


2SC1363

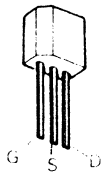


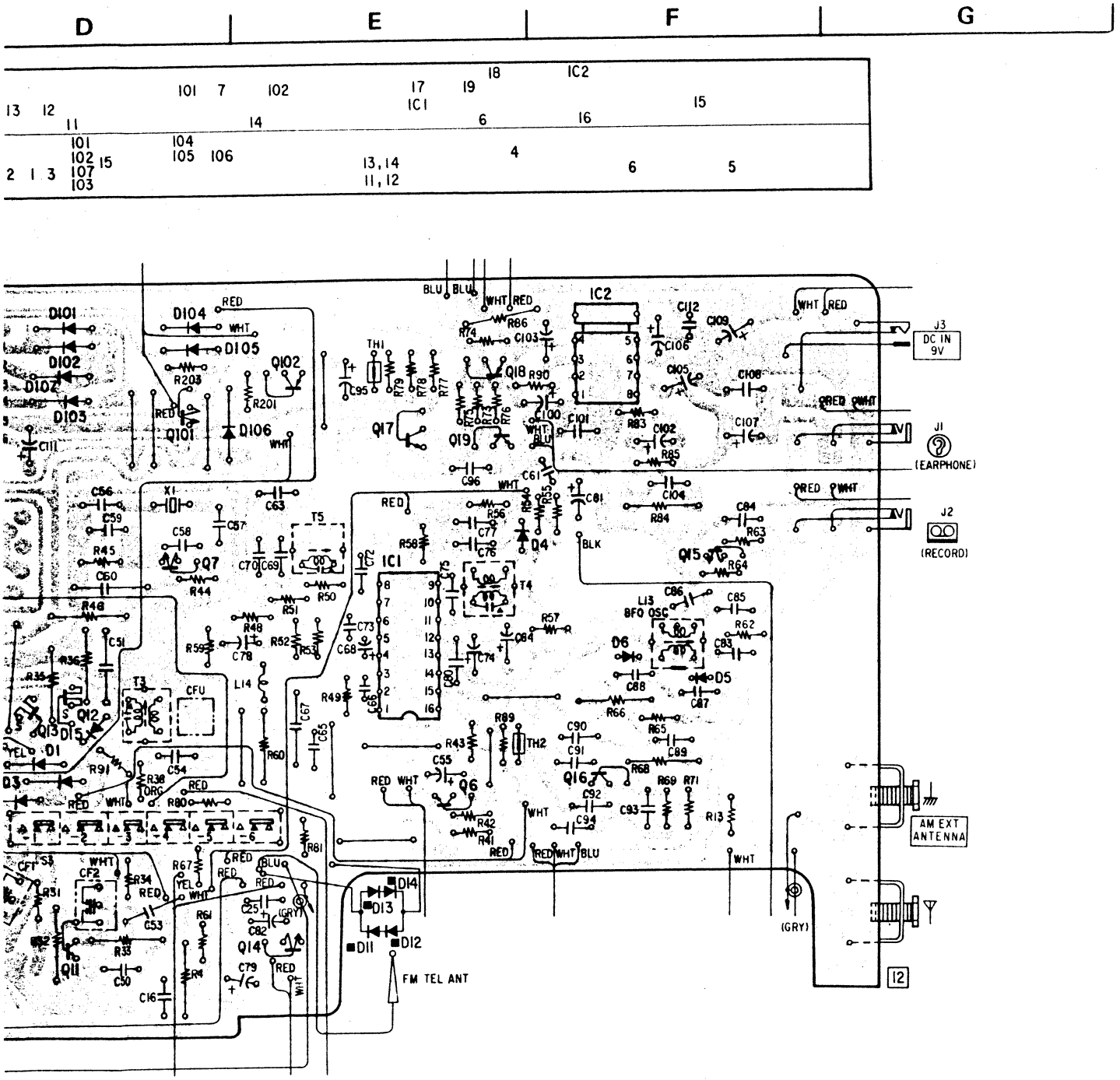
2SC2839E
2SC536SP

2SK161



2SK241Y
2SK284

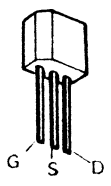




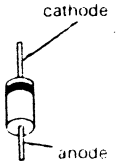
Note:

- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

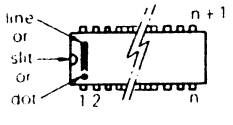
2SK241Y
2SK284



1S1555
1S2139C
1T261

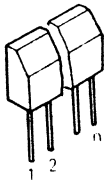


KB-4419C

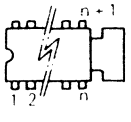


(Top view)

M54460L

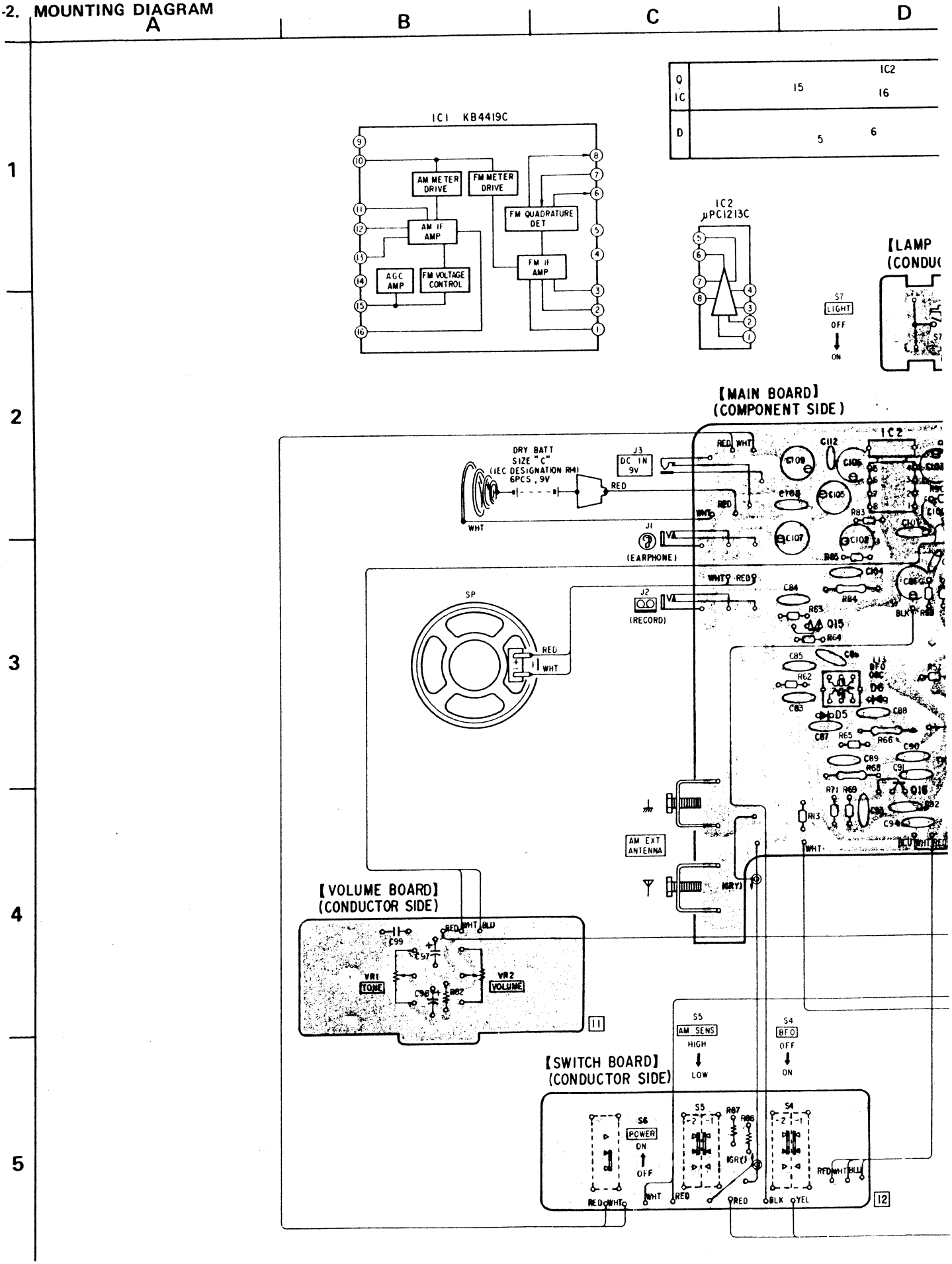


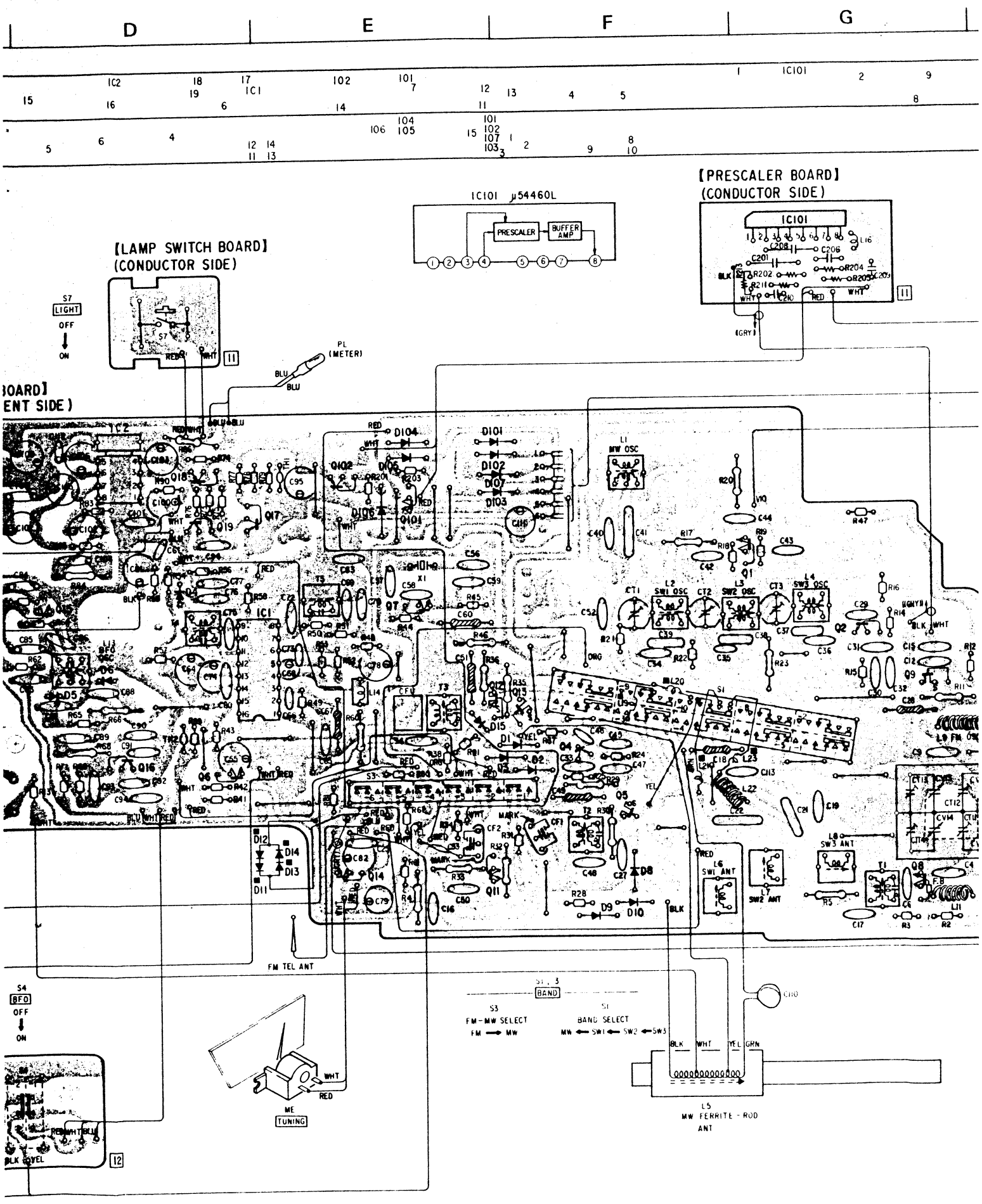
μPC-1213C



(Top view)

-2. MOUNTING DIAGRAM




D
E
F
G
【PRESCALER BOARD】
(CONDUCTOR SIDE)
IC101 μ54460L
PRESCALER
BUFFER AMP
【LAMP SWITCH BOARD】
(CONDUCTOR SIDE)
S7
LIGHT
OFF
ON
PL
(METER)
BLU
BLU
FM TEL ANT
S4
BFO
OFF
ON
ME
TUNING
S3
FM-MW SELECT
FM
MW
S1
BAND SELECT
MW
SW1
SW2
SW3
BAND
L5
MW FERRITE - ROD
ANT
BLK
WHT
YEL
GRN
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MW OSC
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SW1 OSC
L3
SW2 OSC
L4
SW3 OSC
L6
SW1 ANT
L7
SW2 ANT
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SW3 ANT
L9 FM OSC
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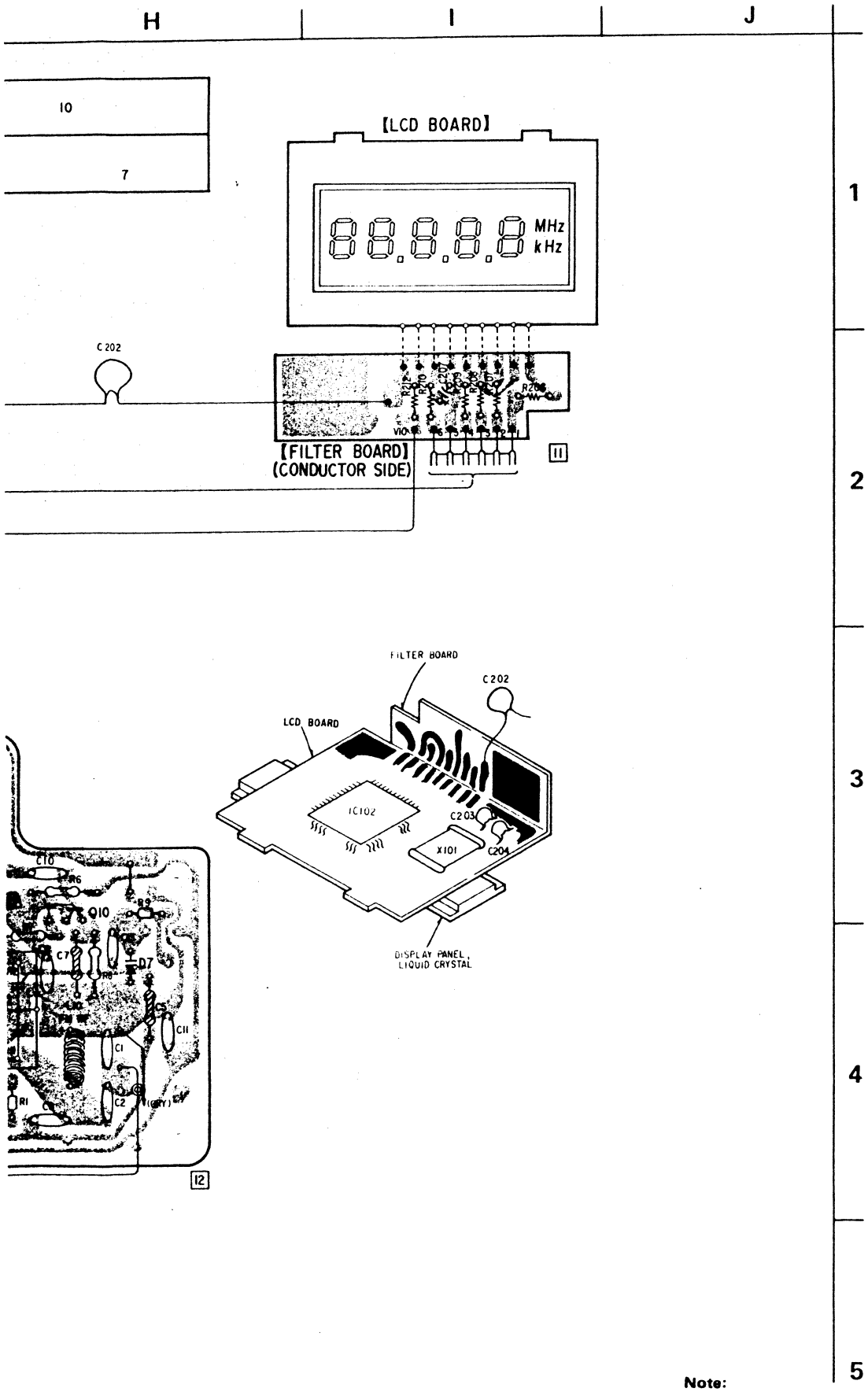


Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

1-3. SCHEMATIC DIAGRAM

IC1 KB4419C
FM/AM IF AMP, FM DET

Q12 2SK161
SW2 MIX

Q13 2SK184
MW MIX

FM IF AMP
FM METER DRIVE
FM QUADRATURE DET
AM METER DRIVE
AGC AMP
FM VOLTAGE CONTROL
AM IF AMP
FM VCC
AM VCC
ME TUNING
S1 BAND (BAND SELECT) MW ← SW1 ← SW2 ← SW3
S1-7
CFU
T3
T4
T5
T2
D1 D2 D3 D8 D9 D10 D15 D4 D5 D6
D1,2 1S1555
D15 1S1555
D4 IT23 AM DET
D5,6 IT23
D3,8-10 1S1555
Q14 2SC1363 METER AMP
Q5 2SK241 SW1 OSC
Q6 2SC1363 SHUNT AGC
Q7 2SC710 SW2 OSC
Q15 2SC710 BFO OSC
Q16 2SC1363 AMP
Q4 2SC2839 BUFFER AMP
Q101 2SC536 FM/SW SWITCHING
[SWITCH BOARD (1/5)]
S4 BFO OFF → ON
S5 AM SENS HIGH ↓ LOW
HIGH : (0V) LOW : (3.5V)
HIGH : (0.5V) LOW : (0V)
BFO ON : -0.3V
BFO ON : 1.3V
BFO ON : 0.6V
BFO ON : 3.7V
TH2 S-300
X1
L13 BFO OSC
L19 3.9μH
L20 3.9μH
L23 4.7μH
IC101 μ54460L PRESCALER
IC102 MSM5527RS FREQUENCY COUNTER
[PRESCALER BOARD]
[FILTER BOARD (1/2)]
[FILTER BOA
SEG OUT (a1 - g5)
MHz
kHz

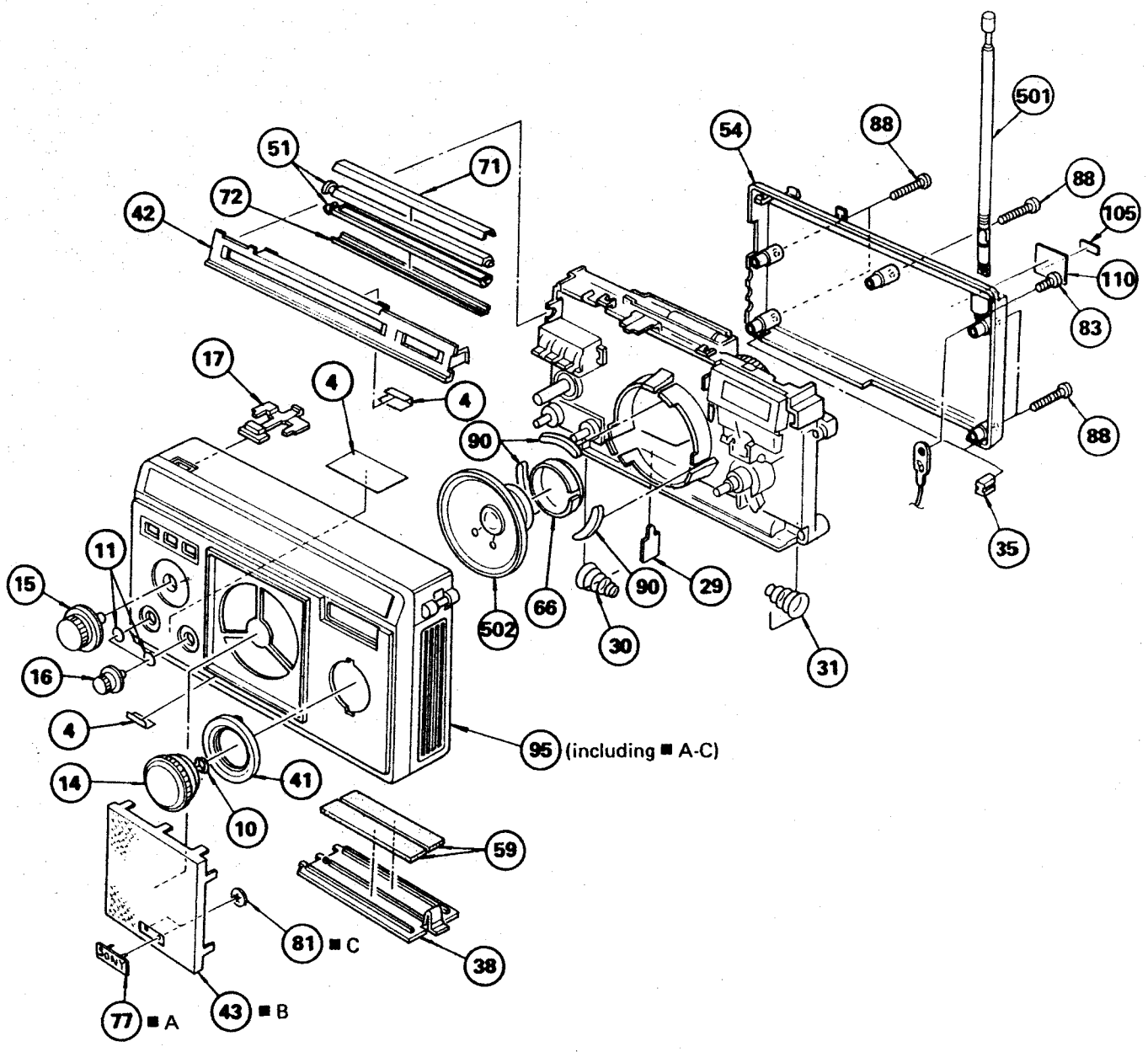
Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/8 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- ▭ : panel designation.
- ——: B+ bus.
- Readings are taken under no-signal conditions.
  ( ) : MW
  < > : SW
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 kΩ/V).
- Switch

Ref. No.	Switch	Position
S1	BAND	SW3
S3	FM-MW BAND SELECT	FM
S4	BFO	OFF
S5	AM SENS	HIGH
S6	POWER	OFF
S7	LIGHT	OFF

Note: Voltages are measured with a VOM (50kΩ/V).

2-1.


501
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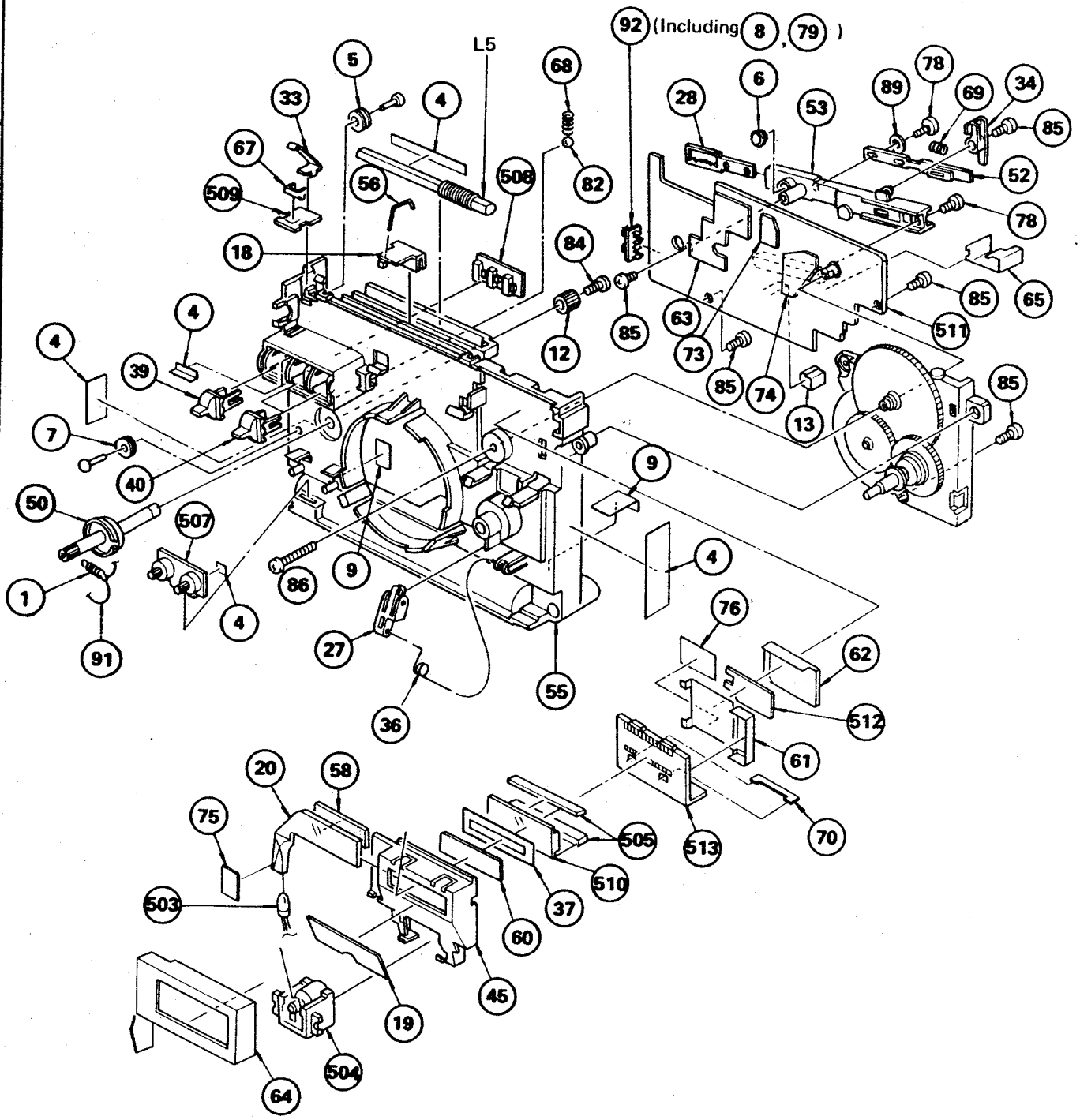
88
88
105
110
83
88
51
71
72
42
17
4
4
90
35
11
15
16
4
14
41
10
95 (including ■ A-C)
66
502
90
29
30
31
59
38
81 ■ C
77 ■ A
43 ■ B

A	B	C	D

2-2.


92 (Including 8, 79)
L5
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82
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503
37
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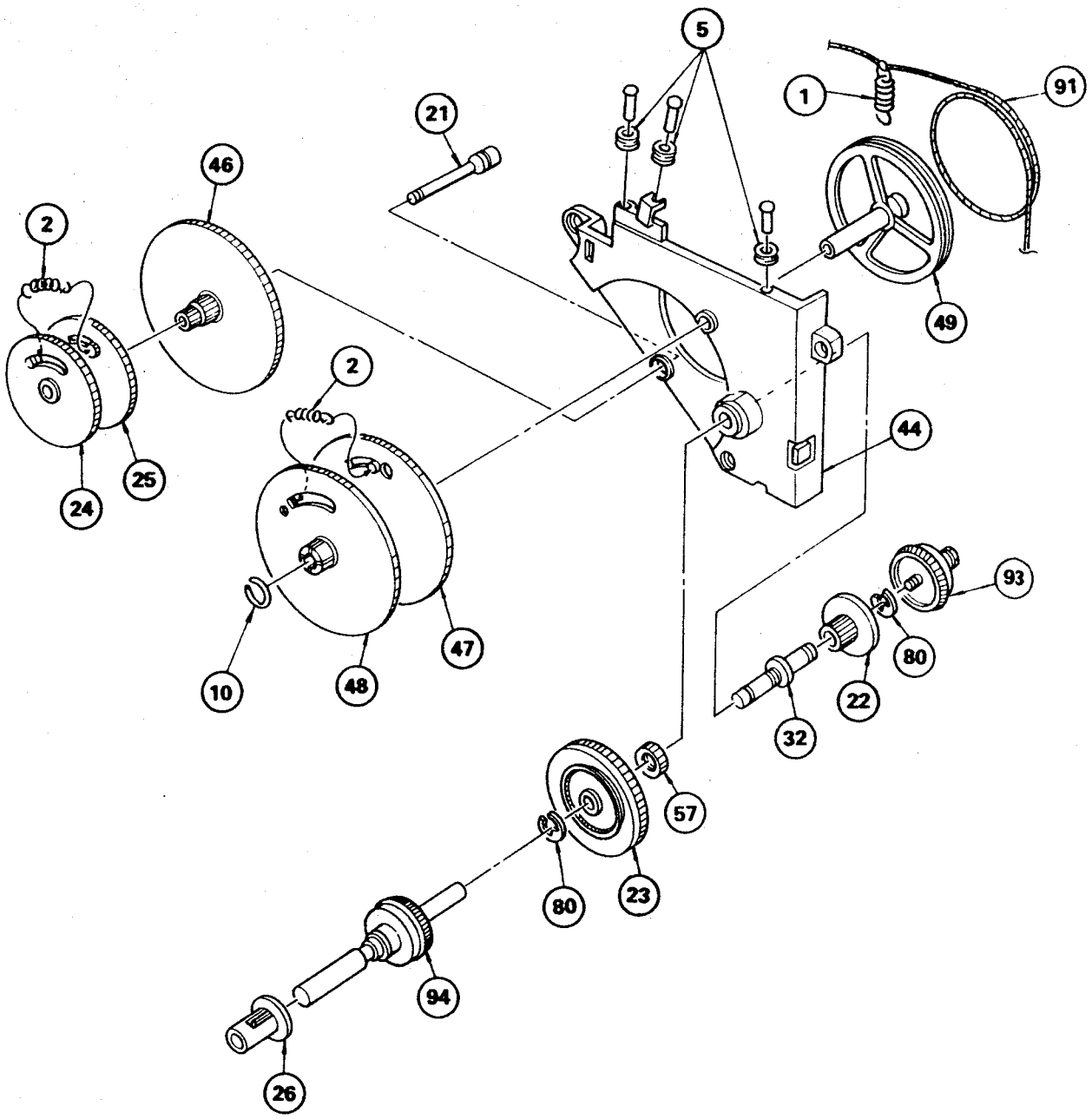
45
19
504
64

2-3.


A
B
C
D
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GENERAL SECTION

No.	Part No.	Description
1	3-561-883-00	SPRING, TENSION
2 ♦	3-642-752-00	SPRING, TENSION
3	.....	
4	3-831-441-XX	SPACER
5	3-834-636-00	PULLEY
6	3-889-773-00	COLLAR
7	3-839-611-00	PULLEY
8	3-840-416-00	SCREW, ANT TERMINAL
9 ♦	3-849-374-00	SPACER, (35X20X0.3)
10	3-880-436-00	SPRING, KNOB
11	3-889-774-00	SPACER, KNOB
12	3-883-939-00	GEAR (D)
13 ♦	3-887-524-00	PLATE, SHIELD
14	3-889-702-00	KNOB (A)
15	3-889-703-00	KNOB (B)
16	3-889-704-00	KNOB (C)
17	3-889-705-00	BUTTON, LAMP
18 ♦	3-889-706-00	TABLE, POINTER
19	3-889-708-00	SCALE, DIAL, METER
20	3-889-709-00	CHIP, ILLUMINATION
21 ♦	3-889-710-00	SHAFT (A)
22	3-889-712-00	GEAR (A)
23	3-889-713-00	GEAR (B)
24	3-889-714-00	GEAR (C)
25	3-889-715-00	GEAR (D)
26 ♦	3-889-717-00	COLLAR
27	3-889-718-00	LEVER
28	3-889-720-00	SLIDER (A)
29	3-889-721-00	BOARD, TERMINAL, POSITIVE
30	3-889-722-00	TERMINAL, NEGATIVE
31	3-889-723-00	TERMINAL, RELAY
32 ♦	3-889-725-00	BEARING (B)
33	3-889-726-00	PLATE, CONTACT, LAMP
34	3-889-727-00	LEVER, SWITCH
35	3-889-728-00	FOOT, RUBBER
36	3-889-729-00	SPRING
37	3-889-730-00	SPACER
38	3-889-731-00	LID, BATTERY CASE
39	3-889-733-01	KNOB (D)
40	3-889-733-11	KNOB (D)
41	3-889-734-00	RING, ORNAMENTAL
42	3-889-735-00	PLATE, BACK
43	3-889-737-00	PANEL, SPEAKER
44	3-889-738-00	CHASSIS (B)
45	3-889-739-00	HOLDER, METER

GENERAL SECTION

No.	Part No.	Description
46	3-889-740-00	GEAR (E)
47	3-889-741-00	GEAR (F)
48	3-889-742-00	GEAR (G)
49	3-889-743-00	DRUM, DIAL
50	3-889-744-00	SHAFT, SELECTION, BAND
51	3-889-745-00	SHAFT, SCALE
52	3-889-746-00	SLIDER (B)
53	3-889-747-00	HOLDER, SWITCH
54	3-889-749-00	CABINET (REAR)
55	3-889-750-00	CHASSIS (A)
56	3-889-751-00	POINTER
57	3-889-752-00	NUT (DIA.9)
58	3-889-753-00	CUSHION (ILLUMINATION CHIP)
59 ♦	3-889-754-00	CUSHION
60	3-889-755-00	PLATE, POLARIZATION
61 ♦	3-889-758-00	PLATE (A), SHIELD
62 ♦	3-889-759-00	PLATE (B), SHIELD
63 ♦	3-889-760-00	PLATE (C), SHIELD
64 ♦	3-889-761-00	PLATE (D), SHIELD
65 ♦	3-889-767-00	CASE (WA), SHIELD
66 ♦	3-889-768-00	PLATE (E), SHIELD
67	3-889-769-00	PLATE, TERMINAL
68	3-889-770-00	SPRING (A), COMPRESSION
69	3-889-771-00	SPRING (B), COMPRESSION
70 ♦	3-889-775-00	RETAINER, PC BOARD
71	3-889-777-00	SCALE, DIAL (FM,MW)
72	3-889-778-00	SCALE, DIAL (SW1,2,3)
73 ♦	3-889-782-00	PLATE (G), SHIELD
74 ♦	3-889-783-00	PLATE (H), SHIELD
75 ♦	3-889-785-00	PLATE, INSULATION
76	4-855-845-00	SPACER
77	4-857-661-11	EMBLEM, SONY
78	7-621-775-10	SCREW +B 2.6X4
79	7-623-108-12	W 3,MIDDLE
80	7-624-109-04	STOP RING 5.0, TYPE -E
81	7-624-200-11	PUSH NUT 2
82	7-671-114-01	BALL 4, STEEL
83	7-682-546-04	SCREW +B 3X5
84	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S
85	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S
86	7-621-260-65	SCREW +P 2.6X30
87	.....	
88	7-685-553-19	SCREW +BTP 3X30 TYPE2 N-S
89	7-688-003-01	W3, SMALL
90	9-911-815-02	CUSHION, SP

NOTE:

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

GENERAL SECTION

No.	Part No.	Description
91	9-911-825-52	STRING, DIAL
92	X-3887-201-0	ANTENNA ASSY, OUTER
93	X-3889-702-0	SCREW ASSY
94	X-3889-703-0	SHAFT (B) ASSY
95	X-3889-705-1	CABINAT ASSY, FRONT

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-463-385-00	ADAPTOR, AC (AC-160W)
102	1-504-075-00	EARPHONE, MAGNETIC
103	3-544-147-00	BAG, POLYETHYLENE
104	3-701-625-00	BAG, POLYETHYLENE
105	3-701-999-00	LABEL, SERIAL NUMBER
106	3-703-264-11	LABEL (B), SERIAL NUMBER
107	3-844-683-00	BUTTON
108	3-887-278-02	WAVE HAND BOOK
109	3-889-757-00	CUSHION
110	3-889-762-00	LABEL, MODEL NUMBER (USA)
111	3-889-780-00	CASE, ADAPTOR
112	3-889-781-00	INDIVIDUAL CARTON
113	3-889-784-00	SPACER
114	3-995-911-21	MANUAL, INSTRUCTION
115	X-3844-608-0	BAND ASSY, SHOULDER

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-501-250-00	ANTENNA, TELESCOPIC (5 STEP)
502	1-502-892-00	SPEAKER
503	1-518-306-00	LAMP, PILOT
504	1-520-445-00	METER
505	1-535-389-00	CONDUCTOR, CONNECTION
506	1-543-152-00	CORE, FERRITE (FOR Q8)
507	♦;1-606-318-00	PC BOARD, VR
508	♦;1-606-319-00	PC BOARD, SWITCH
509	♦;1-606-321-00	PC BOARD, LAMP CONTACT
510	1-806-323-00	DISPLAY PANEL, LIQUID CRYSTAL
511	♦;A-3660-352-A	MOUNTED PCB (A), MAIN
512	♦;1-606-540-00	PC BOARD, PRESCALER
513	X-3889-708-1	COUNTER ASSY
CF1	1-527-795-71	FILTER, CERAMIC
CF2	1-527-795-71	FILTER, CERAMIC
CFU	1-527-290-00	FILTER, CERAMIC
CT1	1-141-232-00	CAP, TRIMAR 11PF
CT2	1-141-232-00	CAP, TRIMAR 11PF
CT3	1-141-232-00	CAP, TRIMAR 11PF
CT1-4 CV1-4	1-151-394-00	CAP, TUNING, POLYETHYLENE
D1	8-719-815-55	DIODE 1S1555
D2	8-719-815-55	DIODE 1S1555
D3	8-719-815-55	DIODE 1S1555
D4	8-719-026-11	DIODE 1T261
D5	8-719-026-11	DIODE 1T261
D6	8-719-026-11	DIODE 1T261
D7	8-719-713-93	DIODE 1S2139C
D8	8-719-815-55	DIODE 1S1555
D9	8-719-815-55	DIODE 1S1555
D10	8-719-815-55	DIODE 1S1555
D15	8-719-815-55	DIODE 1S1555
D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	8-719-815-55	DIODE 1S1555
D105	8-719-815-55	DIODE 1S1555
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
IC1	8-759-900-44	IC KB4419C
IC2	8-759-100-11	IC UPC1213C
IC101	8-759-600-11	IC M54460L
J1	1-507-578-00	JACK
J2	1-507-578-00	JACK
J3	1-507-459-00	JACK

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SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC···, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L1	1-405-755-00	COIL, MW OSC
L2	1-405-976-00	COIL, OSCILLATOR (SW1)
L3	1-405-975-00	COIL, OSCILLATOR (SW2)
L4	1-405-974-00	COIL, OSCILLATOR (SW3)
L5	1-401-933-00	ANTENNA, FERRITE-ROD (MW)
L6	1-401-930-00	COIL, ANT (SW1)
L7	1-401-931-00	COIL, ANT (SW2)
L8	1-401-932-00	COIL, ANT (SW3)
L11	♦;1-401-454-00	ANTENNA COIL
L13	1-405-714-00	COIL, OSC
L14	1-408-203-00	MICRO INDUCTOR 470UH
L16	1-407-882-00	COIL
L19	1-408-558-00	MICRO INDUCTOR 3.9UH
L20	1-408-558-00	MICRO INDUCTOR 3.9UH
L21	1-408-557-00	MICRO INDUCTOR 3.3UH
L22	1-408-555-00	MICRO INDUCTOR 2.2UH
L23	1-408-559-00	MICRO INDUCTOR 4.7UH
Q1	8-729-883-92	TRANSISTOR 2SC2839
Q2	8-729-883-92	TRANSISTOR 2SC2839
Q4	8-729-883-92	TRANSISTOR 2SC2839
Q5	8-729-200-55	TRANSISTOR 2SK241-Y
Q6	8-729-660-37	TRANSISTOR 2SC1363-7
Q7	8-729-671-14	TRANSISTOR 2SC710-14
Q8	8-729-167-42	TRANSISTOR 2SC1674
Q9	8-729-216-13	TRANSISTOR 2SK161
Q10	8-729-883-92	TRANSISTOR 2SC2839
Q11	8-729-883-92	TRANSISTOR 2SC2839
Q12	8-729-216-13	TRANSISTOR 2SK161
Q13	8-729-216-13	TRANSISTOR 2SK161
Q14	8-729-660-37	TRANSISTOR 2SC1363-7
Q15	8-729-671-13	TRANSISTOR 2SC710-13
Q16	8-729-660-37	TRANSISTOR 2SC1363-7
Q17	8-729-660-37	TRANSISTOR 2SC1363-7
Q18	8-729-612-77	TRANSISTOR 2SA1027R
Q19	8-729-660-37	TRANSISTOR 2SC1363-7
Q101	8-729-853-63	TRANSISTOR 2SC536SP
Q102	8-729-612-77	TRANSISTOR 2SA1027R

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-514-316-00	SLIDE SWITCH
S3	1-553-936-00	SWITCH, SLIDE
S4	1-553-938-00	SWITCH, SLIDE
S5	1-553-938-00	SWITCH, SLIDE
S6	1-553-015-00	SWITCH, SLIDE
T1	1-403-872-00	I.F.T
T2	1-404-354-00	COIL, IF
T3	1-404-023-00	COIL, IFT
T4	1-404-100-00	COIL, IFT
T5	1-404-249-00	COIL, FM DETECTOR
TH1	1-800-071-XX	TH DIRECT-HEATING DISK S-300
TH2	1-800-071-XX	TH DIRECT-HEATING DISK S-300
VR1	1-228-498-00	RES, VAR, CARBON 10K
VR2	1-228-497-00	RES, VAR, CARBON 10K
X1	1-527-867-00	OSCILLATOR, CRYSTAL
X101	1-527-863-00	OSCILLATOR, CRYSTAL

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